

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VO051320\
 Data File : VX016202.D
 Acq On : 14 May 2020 00:54
 Operator : JC/SP
 Sample : PB128838ZHE#03
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 41 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 PB128838ZHE#03

Quant Time: May 14 04:45:56 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_X\METHOD\82X050420W.M
 Quant Title : SW846 8260
 QLast Update : Wed May 06 06:43:32 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	5.63	168	280903	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.84	114	466654	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.10	117	449381	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.06	152	230679	50.00	ug/l	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	6.04	65	171368	46.36	ug/l	0.00
Spiked Amount			Recovery	=	92.72%	
35) Dibromofluoromethane	5.47	113	140691	47.59	ug/l	0.00
Spiked Amount			Recovery	=	95.18%	
50) Toluene-d8	8.70	98	573601	50.35	ug/l	0.00
Spiked Amount			Recovery	=	100.70%	
62) 4-Bromofluorobenzene	11.12	95	226949	52.38	ug/l	0.00
Spiked Amount			Recovery	=	104.76%	

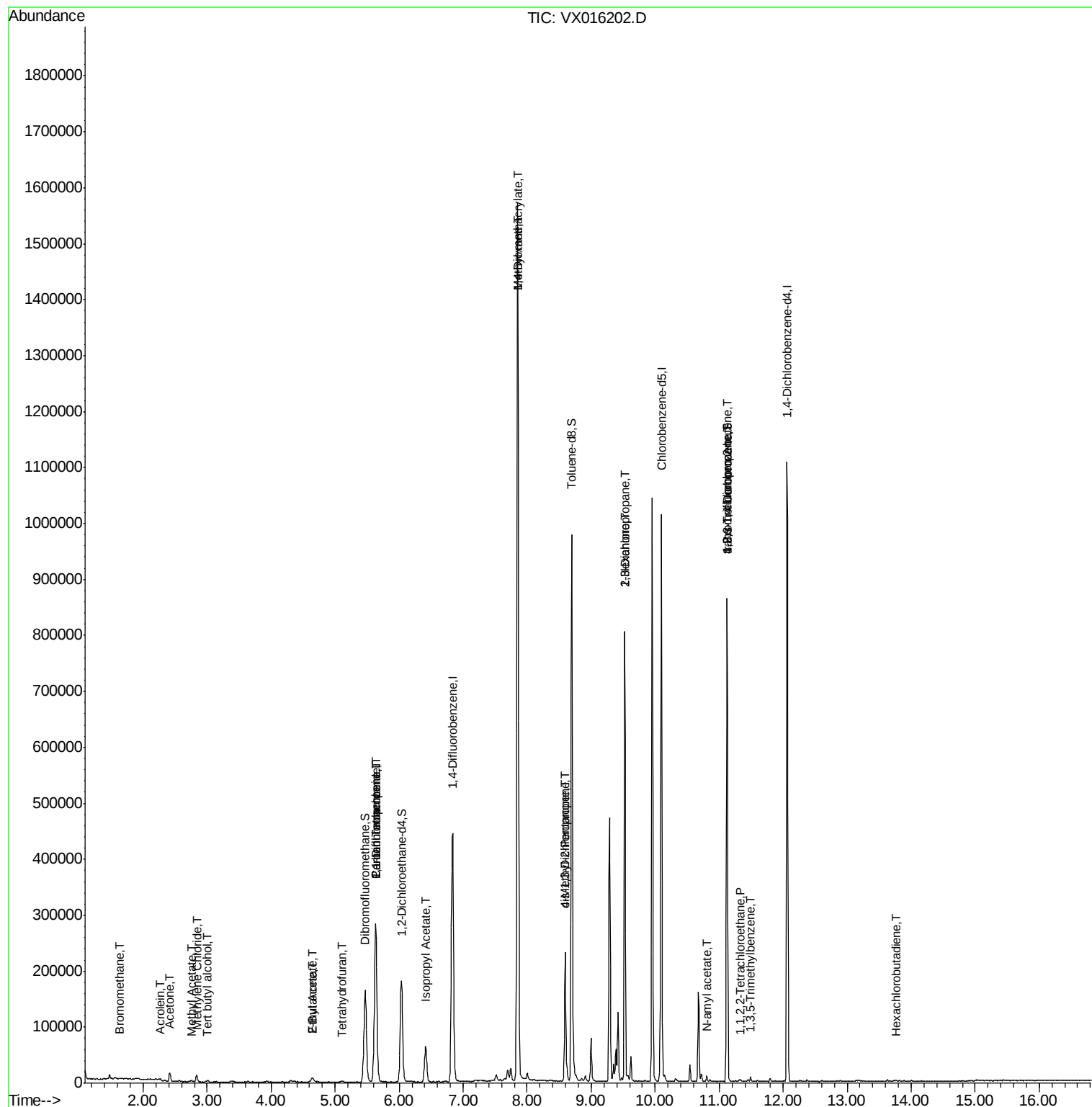
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
5) Bromomethane	1.64	94	380	0.205	ug/l #	27
11) Tert butyl alcohol	3.00	59	2022	2.163	ug/l	97
13) Acrolein	2.28	56	299	0.511	ug/l	91
16) Acetone	2.42	43	15603	9.460	ug/l	98
17) Carbon Disulfide	2.56	76	1558	Below Cal	#	94
18) Methyl Acetate	2.75	43	3149	0.777	ug/l	91
20) Methylene Chloride	2.84	84	5868	1.726	ug/l	92
25) 2-Butanone	4.64	43	9077	3.415	ug/l	92
29) Tetrahydrofuran	5.10	42	1688	0.959	ug/l #	63
36) 1,1-Dichloropropene	5.63	75	20431	4.448	ug/l #	49
37) Ethyl Acetate	4.64	43	9077	1.705	ug/l #	67
38) Carbon Tetrachloride	5.63	117	26768	5.733	ug/l #	15
43) Isopropyl Acetate	6.41	43	85844	10.106	ug/l	99
48) Methyl methacrylate	7.85	41	131098	32.569	ug/l #	41
49) 1,4-Dioxane	7.86	88	275	2.849	ug/l #	1
51) 4-Methyl-2-Pentanone	8.59	43	79436	15.281	ug/l #	47
54) cis-1,3-Dichloropropene	8.60	75	39577	6.751	ug/l #	56
57) 1,3-Dichloropropane	9.52	76	6619	1.151	ug/l #	45
59) 2-Hexanone	9.52	43	84810	20.775	ug/l #	50
74) N-amyl acetate	10.81	43	4771	0.610	ug/l #	45
75) 1,1,2,2-Tetrachloroethane	11.32	83	53	2.066	ug/l #	26
76) 1,2,3-Trichloropropane	11.12	75	111862	21.370	ug/l #	36
80) 1,3,5-Trimethylbenzene	11.49	105	3455	0.244	ug/l	98
81) trans-1,4-Dichloro-2-buten	11.12	75	111862	50.925	ug/l #	13
94) Hexachlorobutadiene	13.77	225	207	0.609	ug/l	90

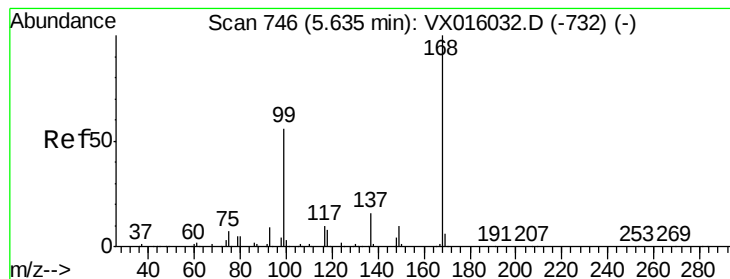
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\V0ASRV\HPCHEM1\MSVOA X\DATA\VX051320\
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Quant Time: May 14 04:45:56 2020
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA_X\METHOD\82X050420W.M
Quant Title : SW846 8260
QLast Update : Wed May 06 06:43:32 2020
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 5.63 min Scan# 746

Delta R.T. -0.00 min

Lab File: VX016202.D

Acq: 14 May 2020 00:54

Instrument :

MSVOA_X

ClientSampleId :

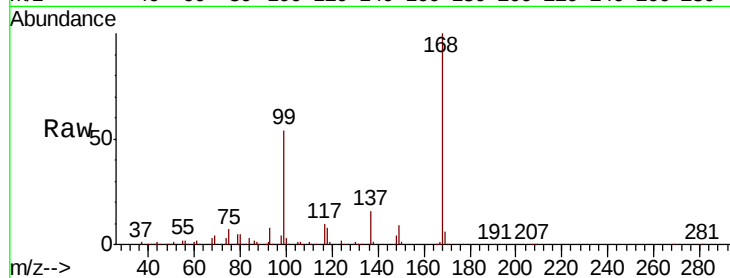
PB128838ZHE#03

Tot Ion:168 Resp: 280903

Ion Ratio Lower Upper

168 100

99 53.7 45.0 67.4



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VX0

5.63

100000

80000

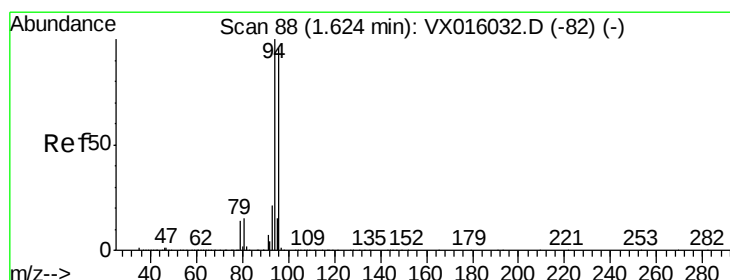
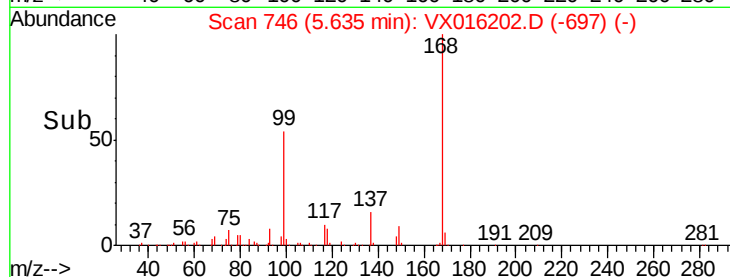
60000

40000

20000

0

Time-->



#5

Bromomethane

Concen: 0.205 ug/l

RT: 1.64 min Scan# 90

Delta R.T. 0.01 min

Lab File: VX016202.D

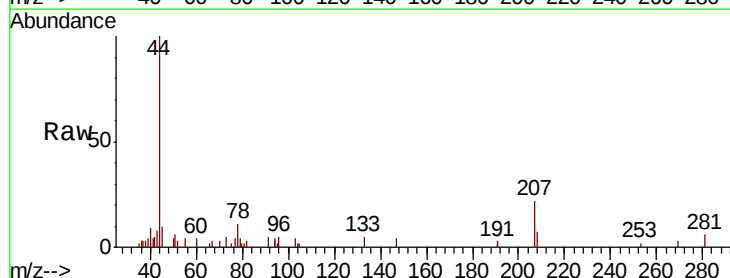
Acq: 14 May 2020 00:54

Tgt Ion: 94 Resp: 380

Ion Ratio Lower Upper

94 100

96 24.3 76.9 115.3#



Abundance Ion 93.90 (93.60 to 94.60): VX0

Ion 95.90 (95.60 to 96.60): VX0

1.64

250

200

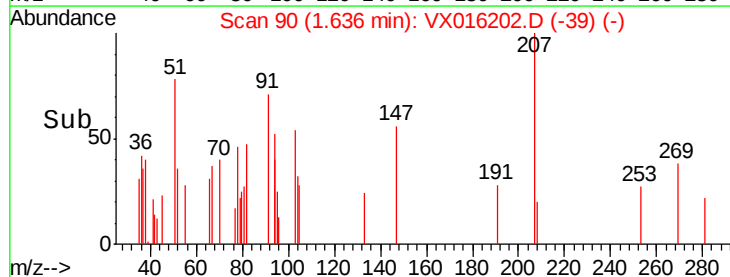
150

100

50

0

Time-->

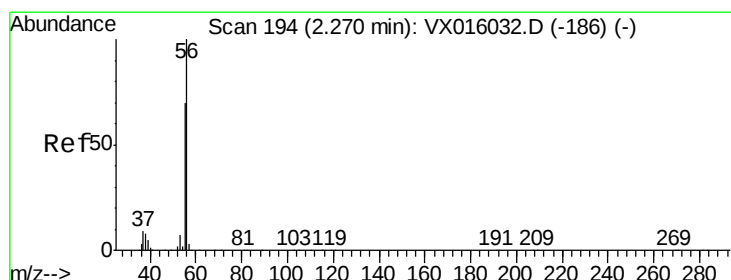
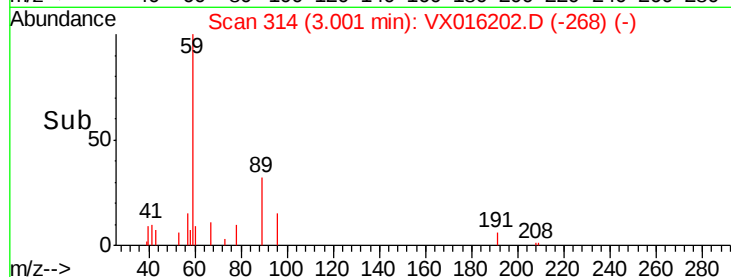
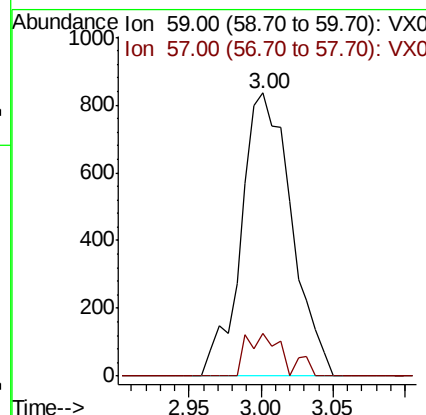
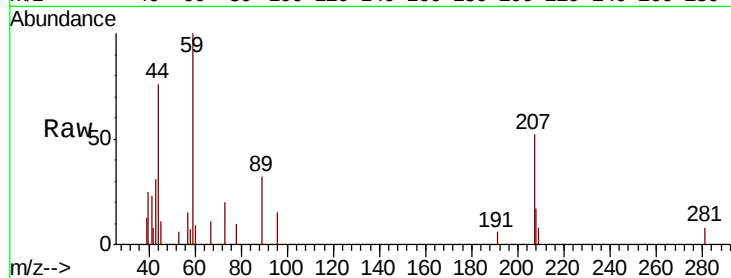




#11
Tert butyl alcohol
Concen: 2.163 ug/l
RT: 3.00 min Scan# 314
Delta R.T. -0.02 min
Lab File: VX016202.D
Acq: 14 May 2020 00:54

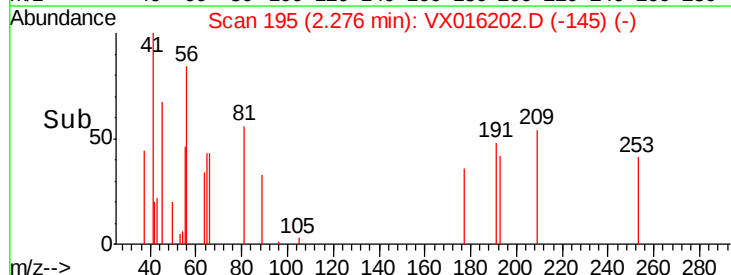
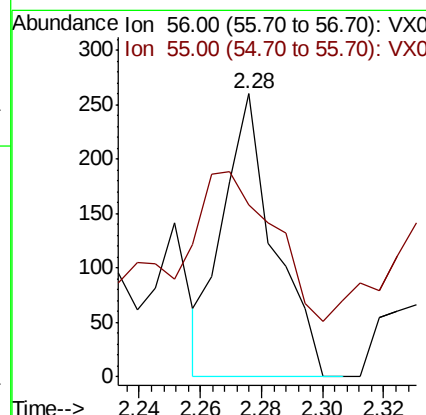
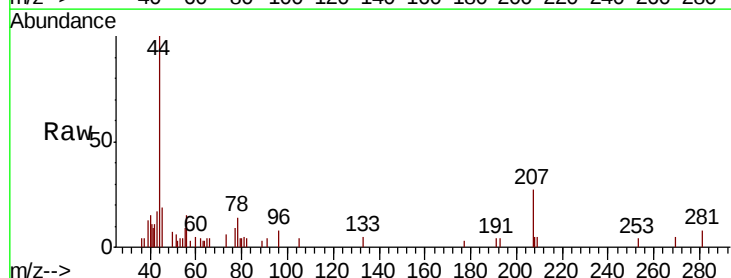
Instrument :
MSVOA_X
ClientSampleId :
PB128838ZHE#03

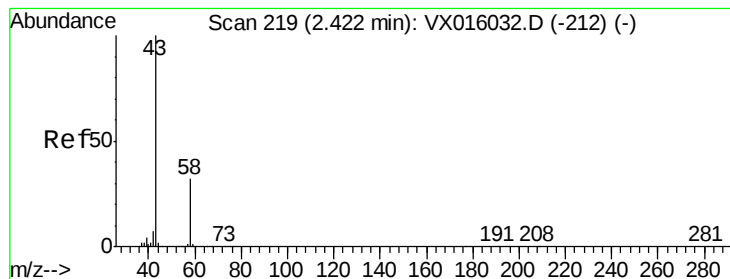
Tot Ion: 59 Resp: 2022
Ion Ratio Lower Upper
59 100
57 11.5 8.2 12.4



#13
Acrolein
Concen: 0.511 ug/l
RT: 2.28 min Scan# 195
Delta R.T. 0.01 min
Lab File: VX016202.D
Acq: 14 May 2020 00:54

Tgt Ion: 56 Resp: 299
Ion Ratio Lower Upper
56 100
55 77.9 56.5 84.7





#16

Acetone

Concen: 9.460 ug/l

RT: 2.42 min Scan# 218

Delta R.T. -0.01 min

Lab File: VX016202.D

Acq: 14 May 2020 00:54

Instrument :

MSVOA_X

ClientSampleId :

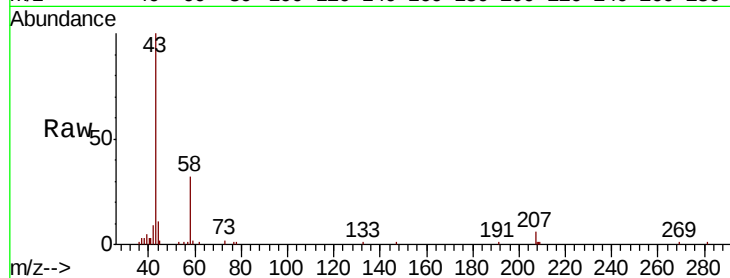
PB128838ZHE#03

Tot Ion: 43 Resp: 15603

Ion Ratio Lower Upper

43 100

58 32.7 25.4 38.0



Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 58.00 (57.70 to 58.70): VX0

2.42

10000

8000

6000

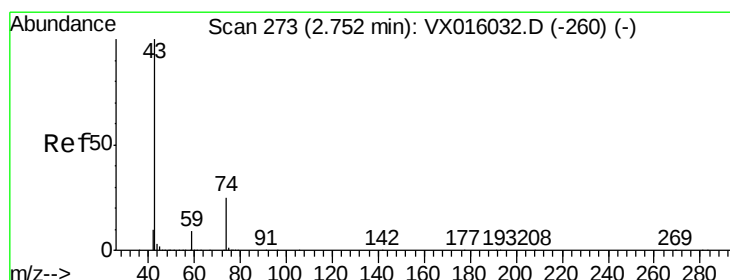
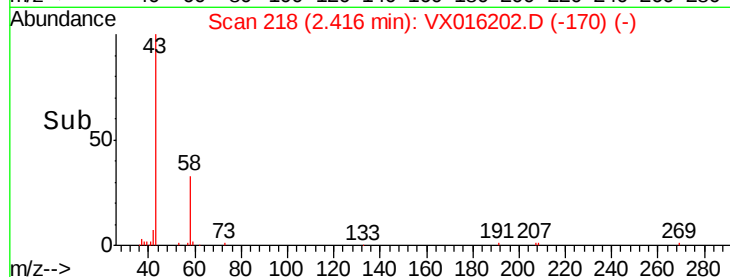
4000

2000

0

Time-->

2.35 2.40 2.45 2.50



#18

Methyl Acetate

Concen: 0.777 ug/l

RT: 2.75 min Scan# 273

Delta R.T. -0.00 min

Lab File: VX016202.D

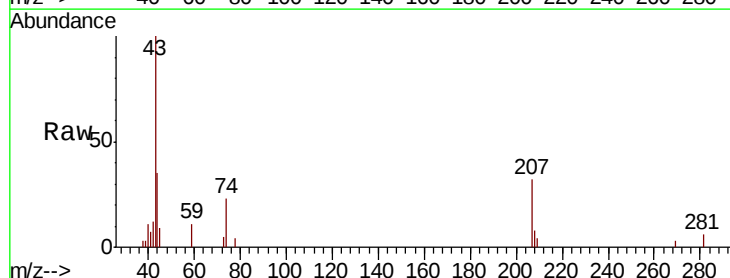
Acq: 14 May 2020 00:54

Tgt Ion: 43 Resp: 3149

Ion Ratio Lower Upper

43 100

74 29.9 20.2 30.2



Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 74.00 (73.70 to 74.70): VX0

2.75

2000

1500

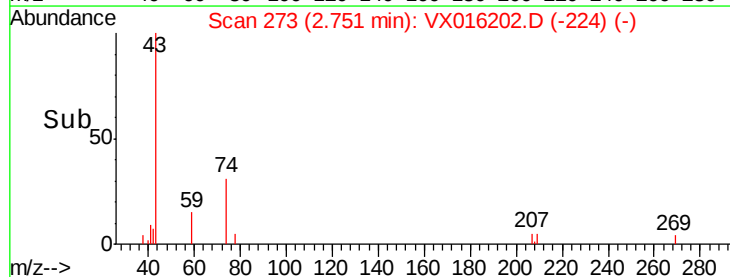
1000

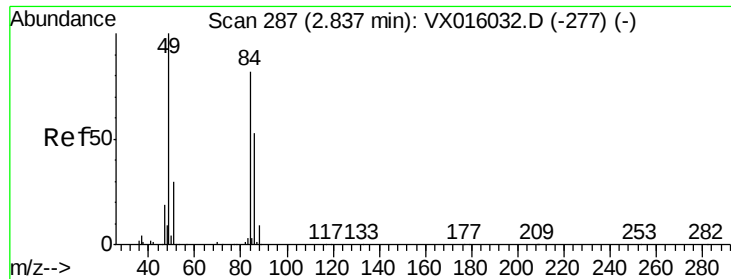
500

0

Time-->

2.70 2.75 2.80

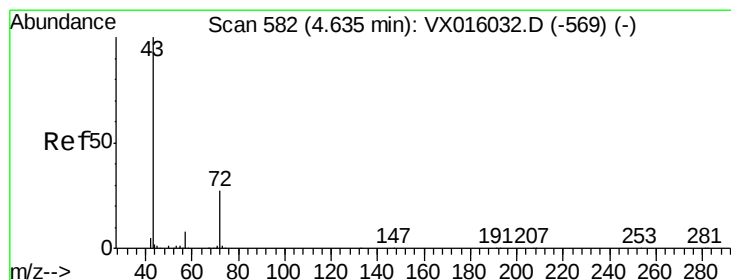
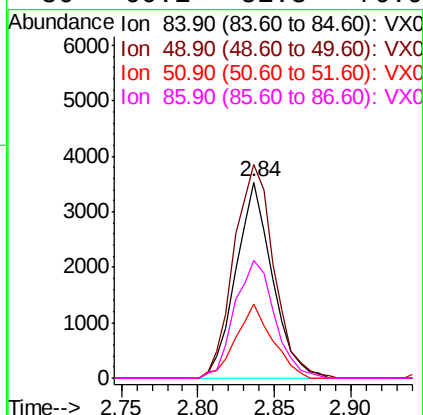
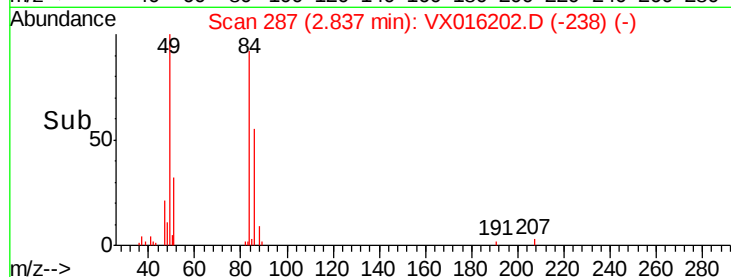
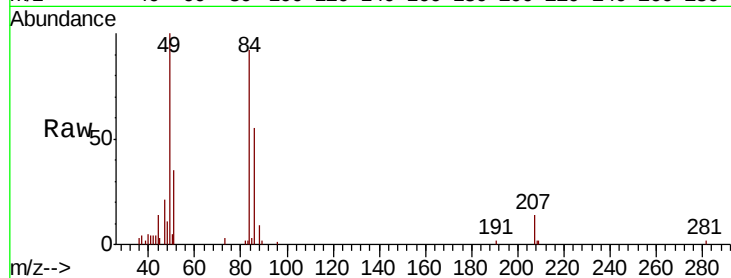




#20
Methvlene Chloride
Concen: 1.726 ug/l
RT: 2.84 min Scan# 287
Delta R.T. -0.00 min
Lab File: VX016202.D
Acq: 14 May 2020 00:54

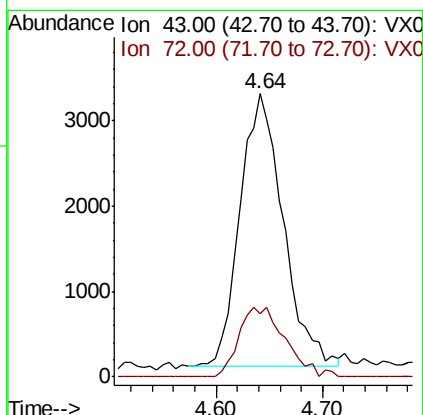
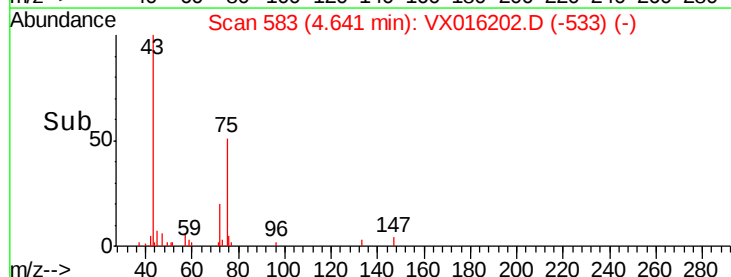
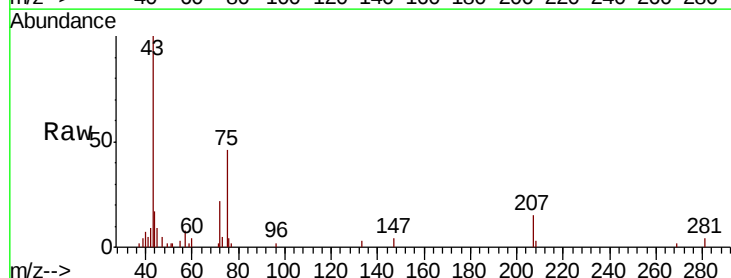
Instrument :
MSVOA_X
ClientSampleId :
PB128838ZHE#03

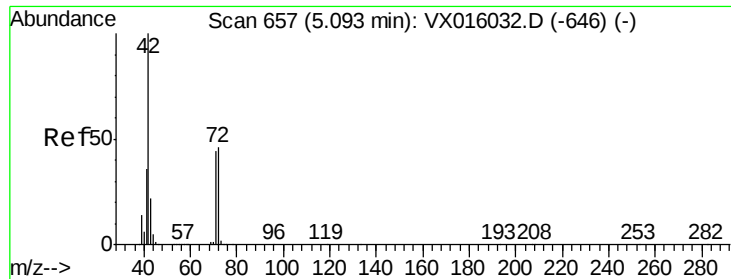
Tot Ion:	84	Resp:	5868
Ion	Ratio	Lower	Upper
84	100		
49	108.8	97.3	145.9
51	37.8	29.3	43.9
86	60.1	51.3	76.9



#25
2-Butanone
Concen: 3.415 ug/l
RT: 4.64 min Scan# 583
Delta R.T. 0.01 min
Lab File: VX016202.D
Acq: 14 May 2020 00:54

Tgt Ion:	43	Resp:	9077
Ion	Ratio	Lower	Upper
43	100		
72	23.0	21.8	32.8





#29

Tetrahydrofuran

Concen: 0.959 ug/l

RT: 5.10 min Scan# 659

Delta R.T. 0.01 min

Lab File: VX016202.D

Acq: 14 May 2020 00:54

Instrument :

MSVOA_X

ClientSampleId :

PB128838ZHE#03

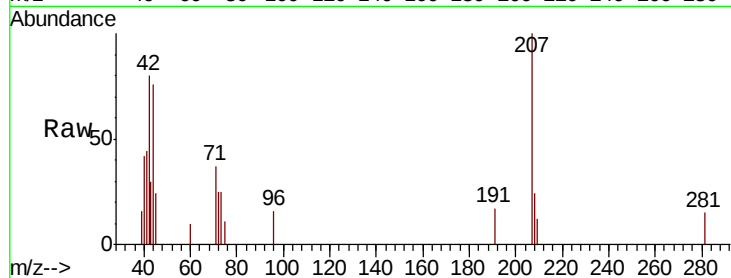
Tot Ion: 42 Resp: 1688

Ion Ratio Lower Upper

42 100

72 16.7 37.1 55.7#

71 24.1 34.5 51.7#



Abundance Ion 42.00 (41.70 to 42.70): VX0

Ion 72.00 (71.70 to 72.70): VX0

Ion 71.00 (70.70 to 71.70): VX0

5.10

400

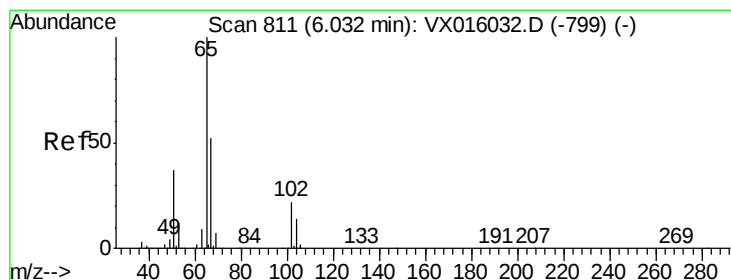
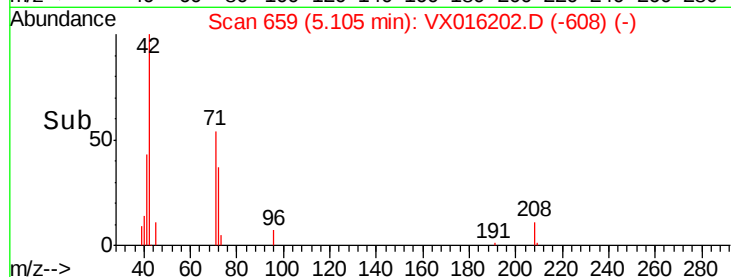
300

200

100

0

Time-->



#33

1,2-Dichloroethane-d4

Concen: 46.361 ug/l

RT: 6.04 min Scan# 812

Delta R.T. 0.01 min

Lab File: VX016202.D

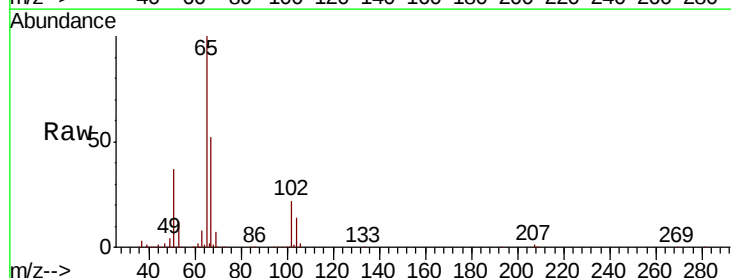
Acq: 14 May 2020 00:54

Tgt Ion: 65 Resp: 171368

Ion Ratio Lower Upper

65 100

67 53.3 0.0 104.8



Abundance Ion 64.90 (64.60 to 65.60): VX0

Ion 66.90 (66.60 to 67.60): VX0

6.04

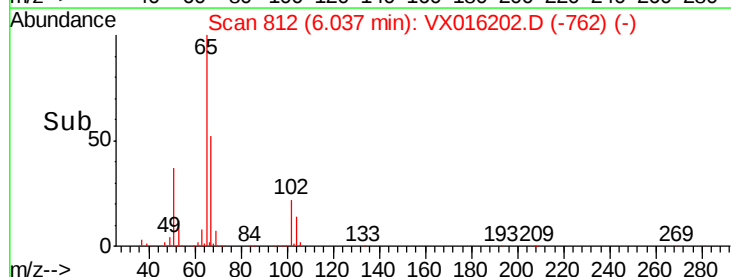
60000

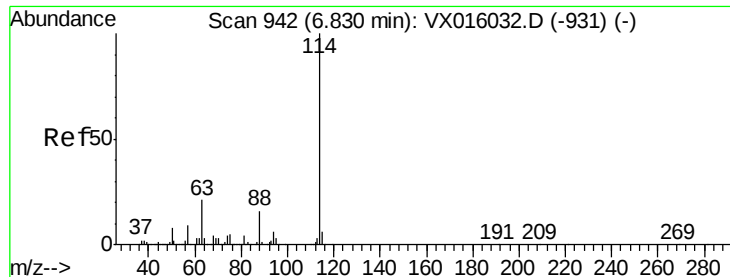
40000

20000

0

Time-->





#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 6.84 min Scan# 943

Delta R.T. 0.01 min

Lab File: VX016202.D

Acq: 14 May 2020 00:54

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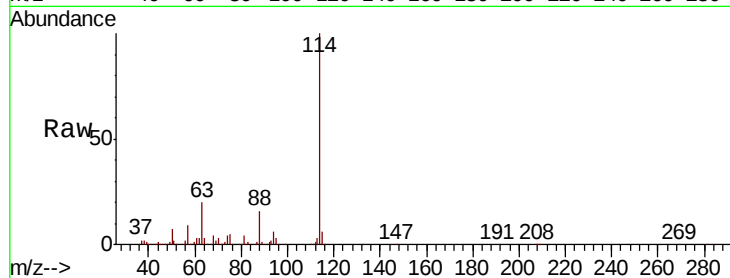
Tot Ion:114 Resp: 466654

Ion Ratio Lower Upper

114 100

63 19.6 0.0 42.8

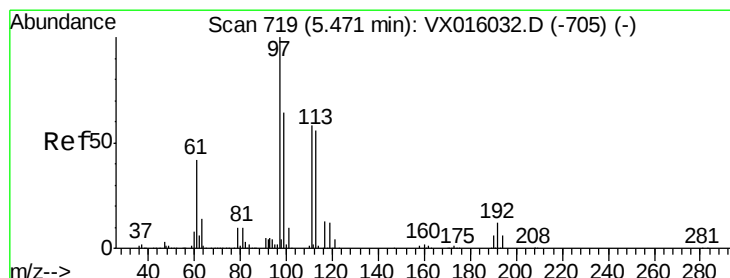
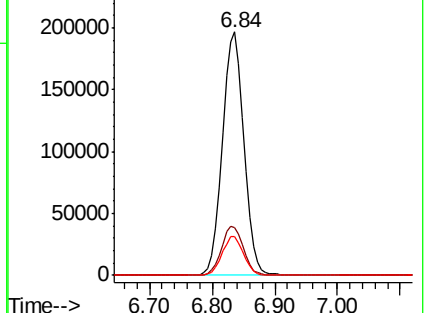
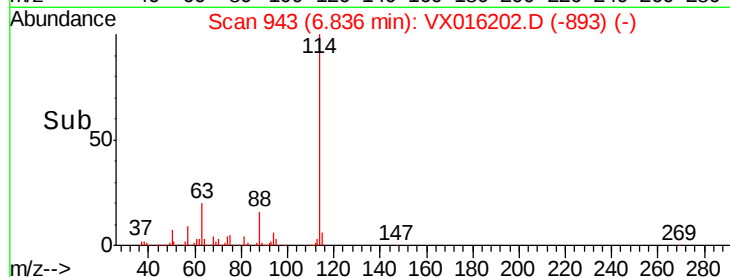
88 16.1 0.0 31.4



Abundance Ion 113.90 (113.60 to 114.60): V

Ion 63.00 (62.70 to 63.70): VX0

Ion 87.90 (87.60 to 88.60): VX0



#35

Dibromofluoromethane

Concen: 47.588 ug/l

RT: 5.47 min Scan# 719

Delta R.T. -0.00 min

Lab File: VX016202.D

Acq: 14 May 2020 00:54

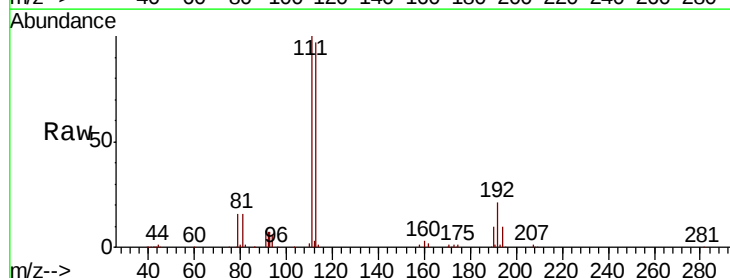
Tgt Ion:113 Resp: 140691

Ion Ratio Lower Upper

113 100

111 102.2 81.6 122.4

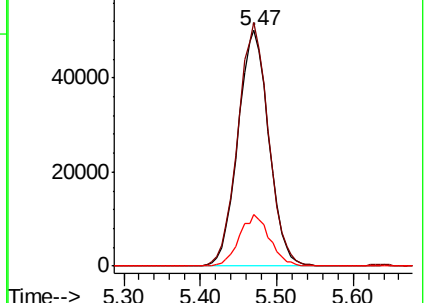
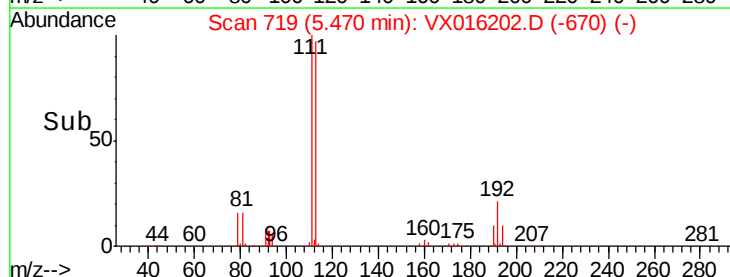
192 21.6 17.0 25.4

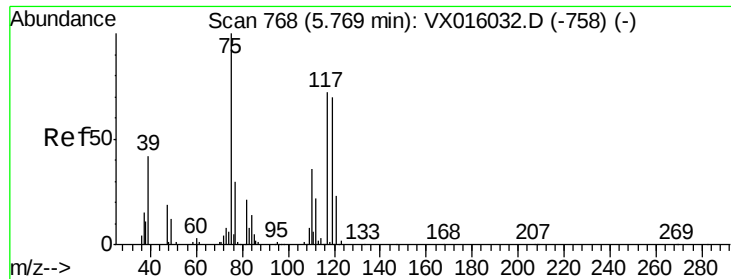


Abundance Ion 112.80 (112.50 to 113.50): V

Ion 110.80 (110.50 to 111.50): V

Ion 191.70 (191.40 to 192.40): V





#36

1,1-Dichloropropene

Concen: 4.448 ug/l

RT: 5.63 min Scan# 745

Delta R.T. -0.14 min

Lab File: VX016202.D

Acq: 14 May 2020 00:54

Instrument :

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PB128838ZHE#03

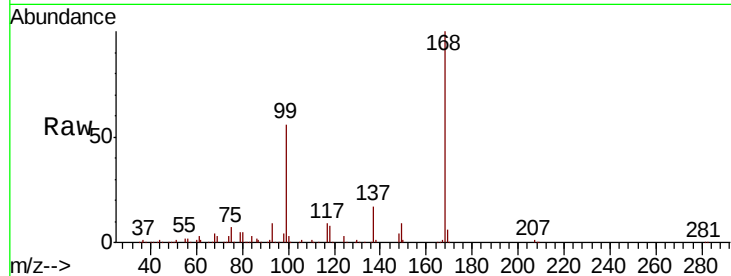
Tot Ion: 75 Resp: 20431

Ion Ratio Lower Upper

75 100

110 8.7 18.1 54.1#

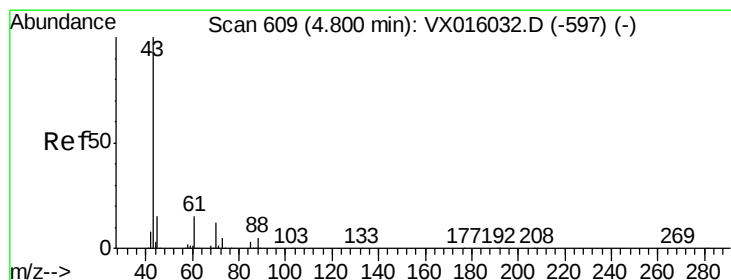
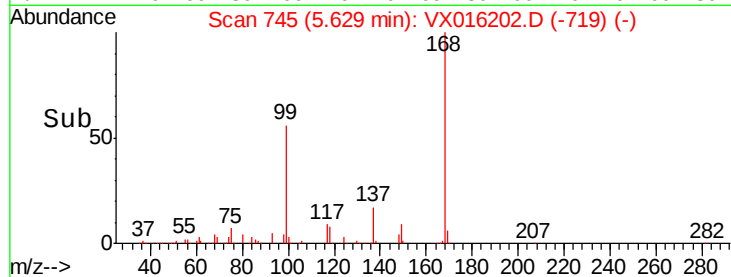
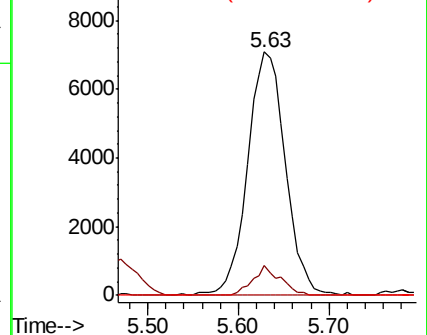
77 0.0 25.0 37.6#



Abundance Ion 74.90 (74.60 to 75.60): VX0

Ion 109.90 (109.60 to 110.60): VX0

Ion 76.90 (76.60 to 77.60): VX0



#37

Ethyl Acetate

Concen: 1.705 ug/l

RT: 4.64 min Scan# 583

Delta R.T. -0.16 min

Lab File: VX016202.D

Acq: 14 May 2020 00:54

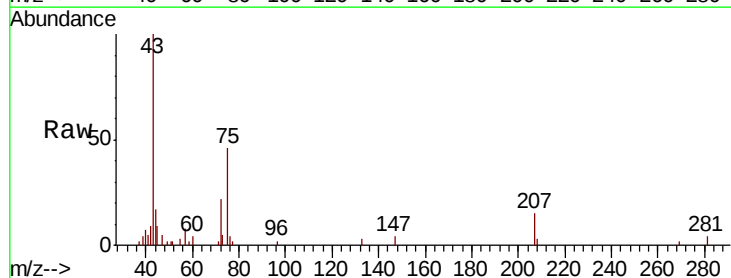
Tgt Ion: 43 Resp: 9077

Ion Ratio Lower Upper

43 100

61 0.0 11.7 17.5#

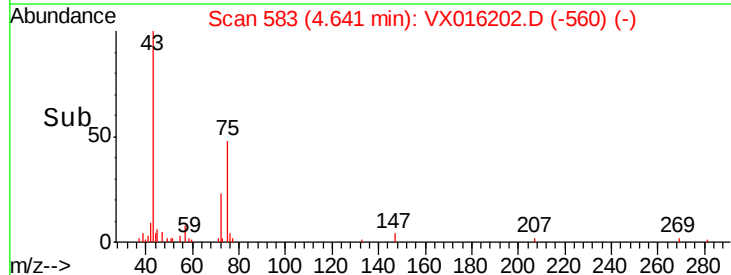
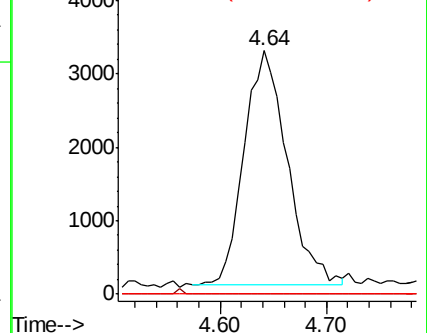
70 0.0 9.3 13.9#

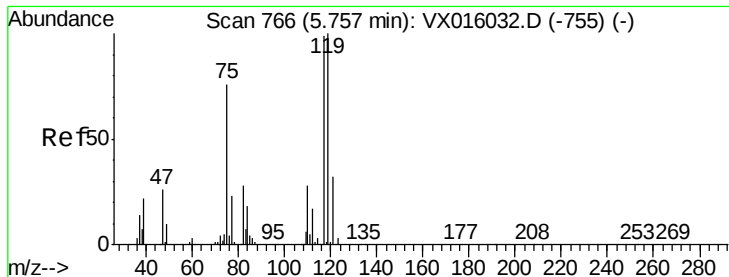


Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 60.90 (60.60 to 61.60): VX0

Ion 70.00 (69.70 to 70.70): VX0





#38

Carbon Tetrachloride

Concen: 5.733 ug/l

RT: 5.63 min Scan# 746

Delta R.T. -0.12 min

Lab File: VX016202.D

Acq: 14 May 2020 00:54

Instrument :

MSVOA_X

ClientSampleId :

PB128838ZHE#03

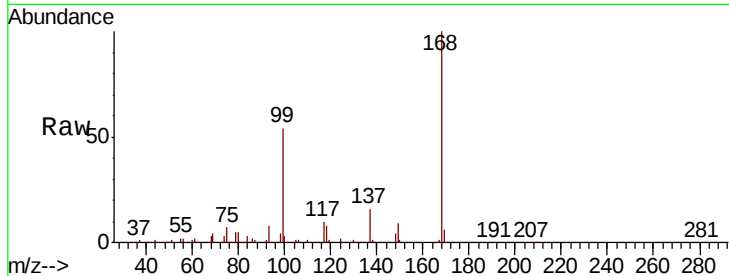
Tot Ion:117 Resp: 26768

Ion Ratio Lower Upper

117 100

119 6.2 80.3 120.5#

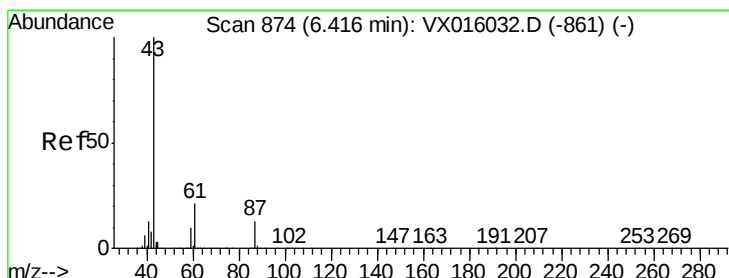
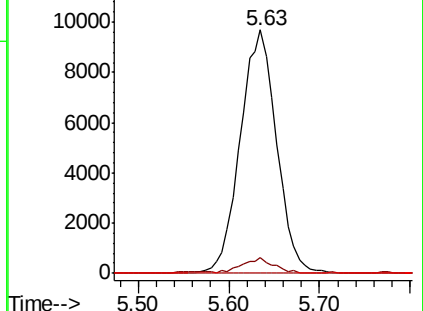
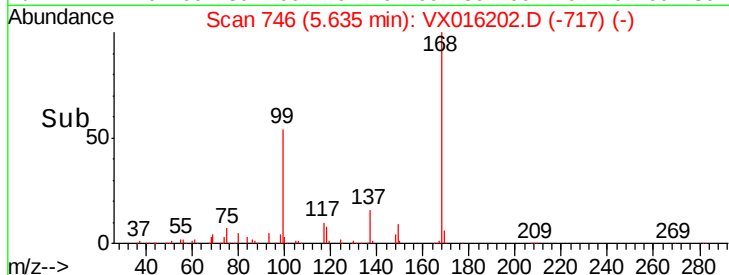
121 0.0 25.7 38.5#



Abundance Ion 116.80 (116.50 to 117.50): V

Ion 118.80 (118.50 to 119.50): V

Ion 120.80 (120.50 to 121.50): V



#43

Isopropyl Acetate

Concen: 10.106 ug/l

RT: 6.41 min Scan# 873

Delta R.T. -0.01 min

Lab File: VX016202.D

Acq: 14 May 2020 00:54

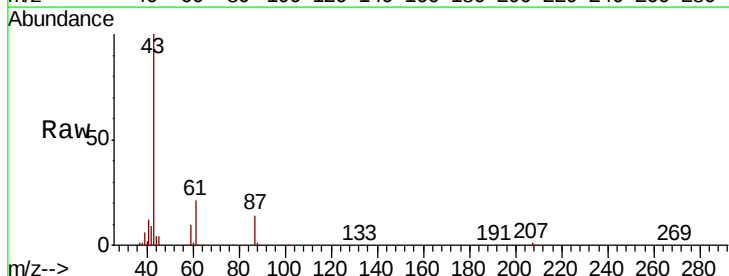
Tgt Ion: 43 Resp: 85844

Ion Ratio Lower Upper

43 100

61 21.6 17.0 25.4

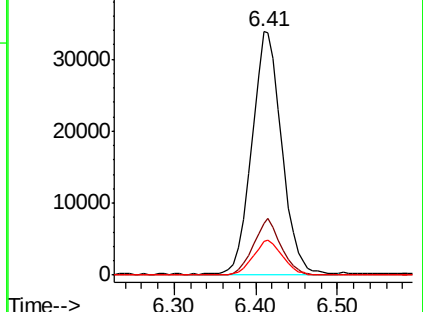
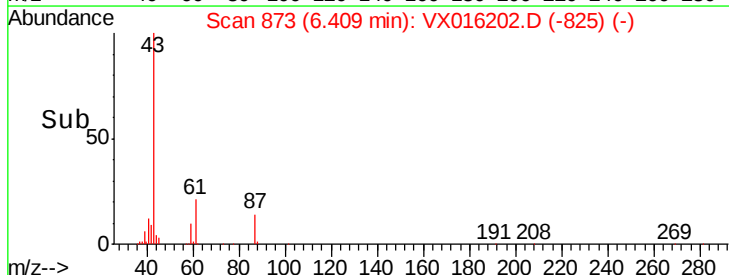
87 14.1 11.0 16.6

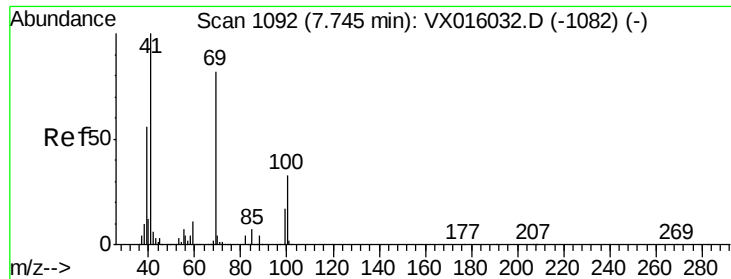


Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 61.00 (60.70 to 61.70): VX0

Ion 87.00 (86.70 to 87.70): VX0

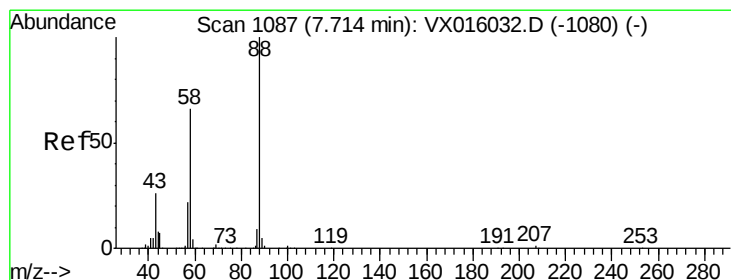
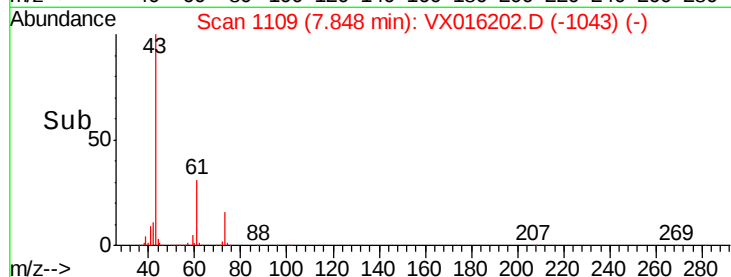
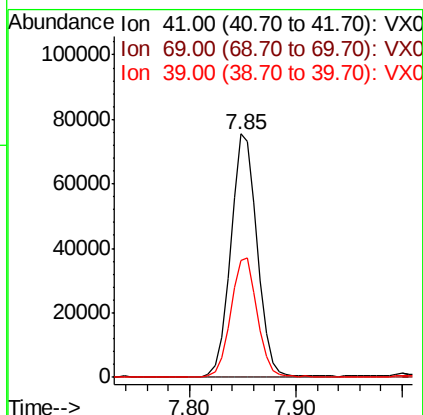
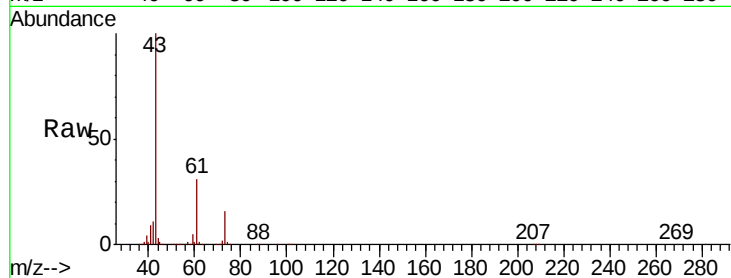




#48
Methvl methacrylate
Concen: 32.569 ug/l
RT: 7.85 min Scan# 1109
Delta R.T. 0.10 min
Lab File: VX016202.D
Acq: 14 May 2020 00:54

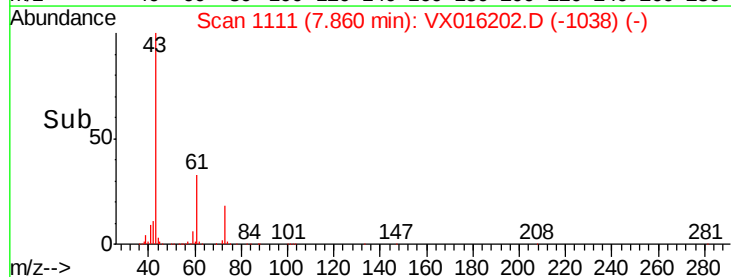
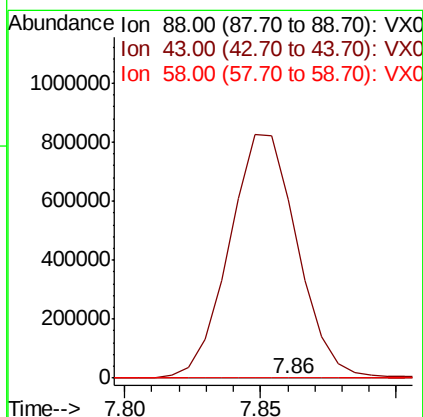
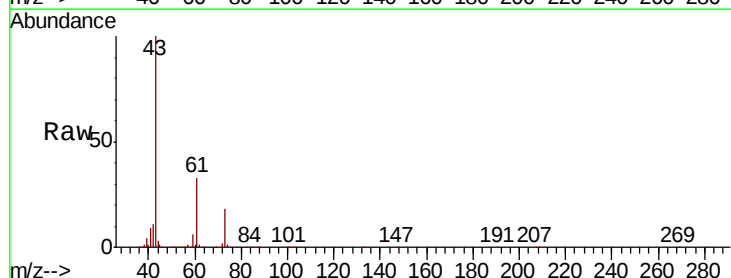
Instrument :
MSVOA_X
ClientSampleId :
PB128838ZHE#03

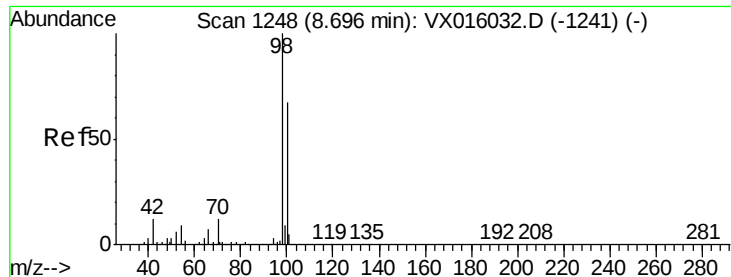
Tot Ion: 41 Resp: 131098
Ion Ratio Lower Upper
41 100
69 0.2 67.8 101.6#
39 49.4 44.6 67.0



#49
1,4-Dioxane
Concen: 2.849 ug/l
RT: 7.86 min Scan# 1111
Delta R.T. 0.15 min
Lab File: VX016202.D
Acq: 14 May 2020 00:54

Tgt Ion: 88 Resp: 275
Ion Ratio Lower Upper
88 100
43 524208.7 25.3 37.9#
58 2191.6 55.9 83.9#





#50

Toluene-d8

Concen: 50.354 ug/l

RT: 8.70 min Scan# 1248

Delta R.T. -0.00 min

Lab File: VX016202.D

Acq: 14 May 2020 00:54

Instrument :

MSVOA_X

ClientSampleId :

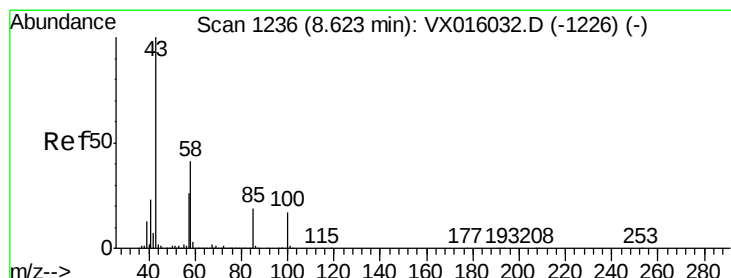
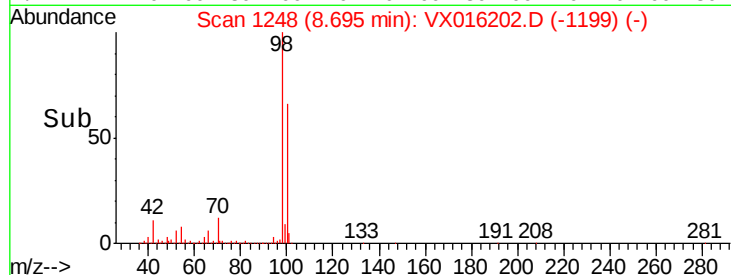
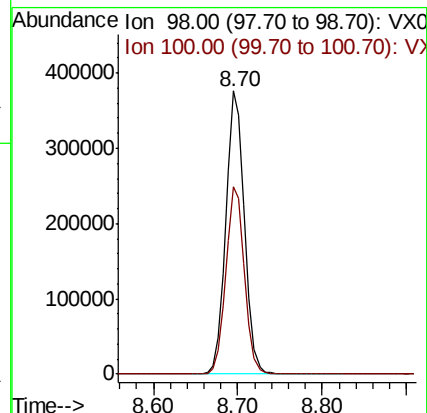
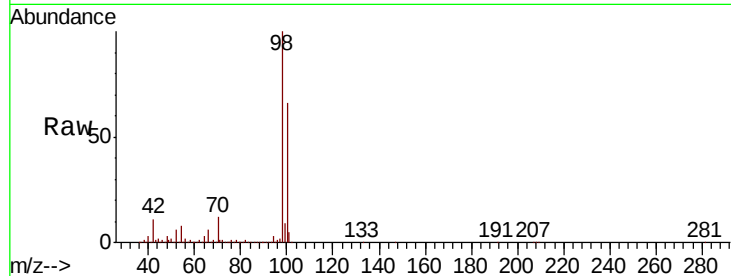
PB128838ZHE#03

Tot Ion: 98 Resp: 573601

Ion Ratio Lower Upper

98 100

100 66.2 53.7 80.5



#51

4-Methyl-2-Pentanone

Concen: 15.281 ug/l

RT: 8.59 min Scan# 1231

Delta R.T. -0.03 min

Lab File: VX016202.D

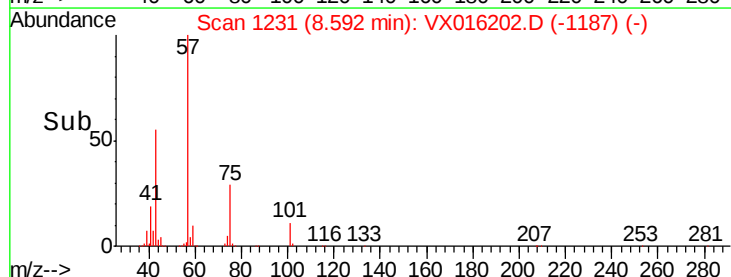
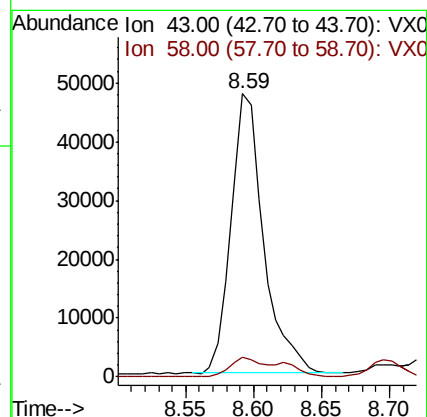
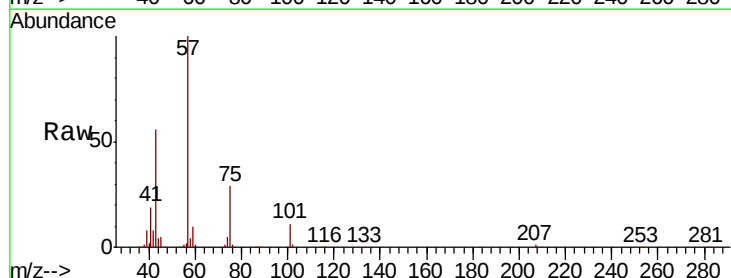
Acq: 14 May 2020 00:54

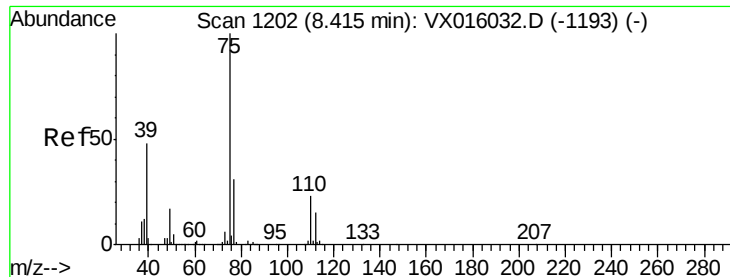
Tgt Ion: 43 Resp: 79436

Ion Ratio Lower Upper

43 100

58 7.8 33.0 49.4#





#54

cis-1,3-Dichloropropene

Concen: 6.751 ug/l

RT: 8.60 min Scan# 1232

Delta R.T. 0.18 min

Lab File: VX016202.D

Acq: 14 May 2020 00:54

Instrument :

MSVOA_X

ClientSampleId :

PB128838ZHE#03

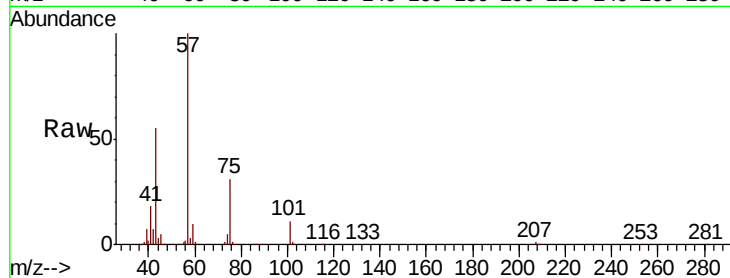
Tot Ion: 75 Resp: 39577

Ion Ratio Lower Upper

75 100

77 0.7 24.7 37.1#

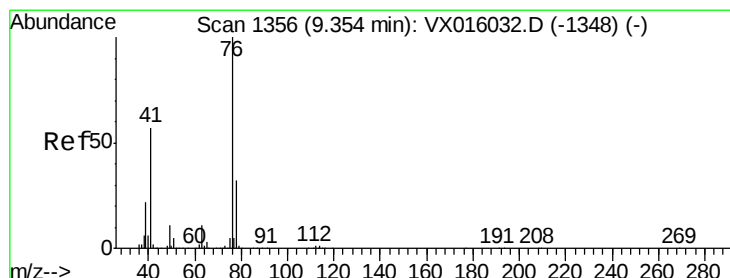
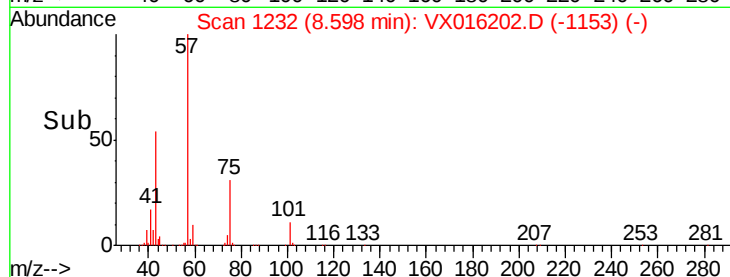
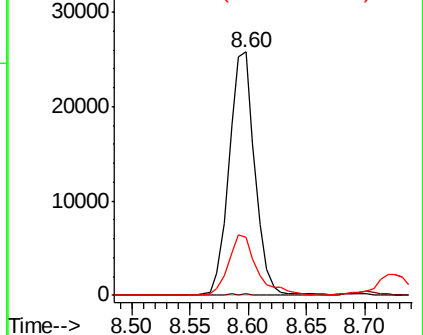
39 23.6 38.7 58.1#



Abundance Ion 74.90 (74.60 to 75.60): VX0

Ion 76.90 (76.60 to 77.60): VX0

Ion 39.00 (38.70 to 39.70): VX0



#57

1,3-Dichloropropane

Concen: 1.151 ug/l

RT: 9.52 min Scan# 1384

Delta R.T. 0.17 min

Lab File: VX016202.D

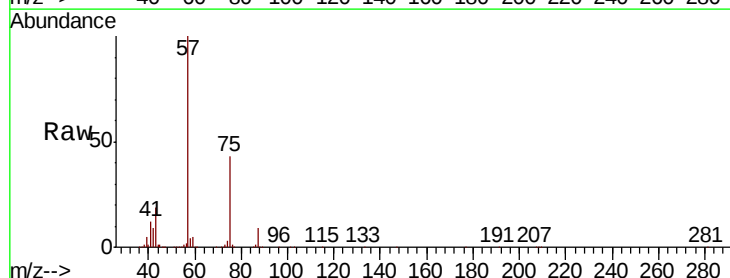
Acq: 14 May 2020 00:54

Tgt Ion: 76 Resp: 6619

Ion Ratio Lower Upper

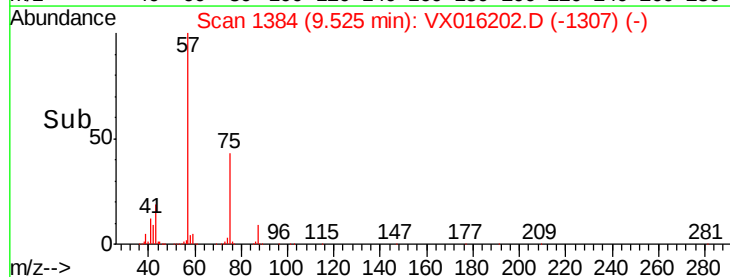
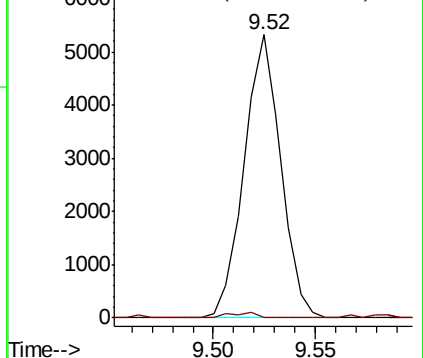
76 100

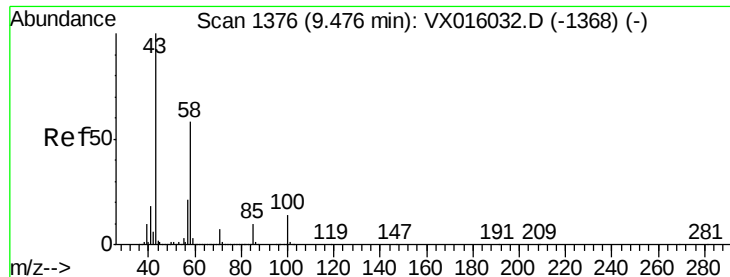
78 1.4 25.9 38.9#



Abundance Ion 75.90 (75.60 to 76.60): VX0

Ion 77.90 (77.60 to 78.60): VX0

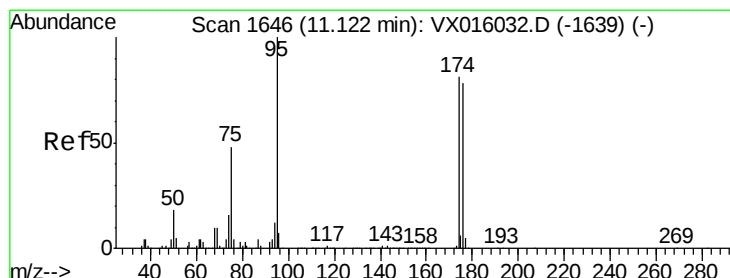
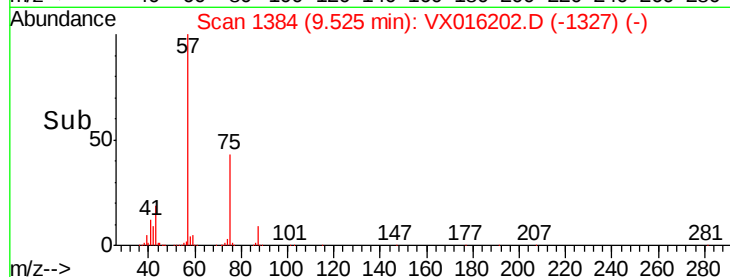
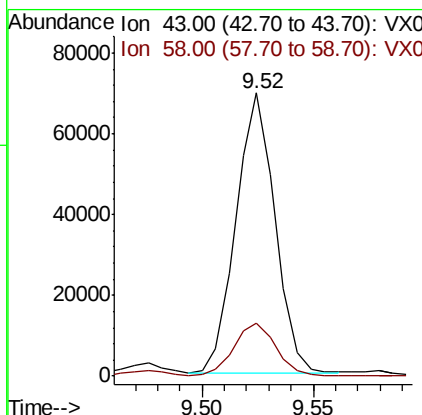
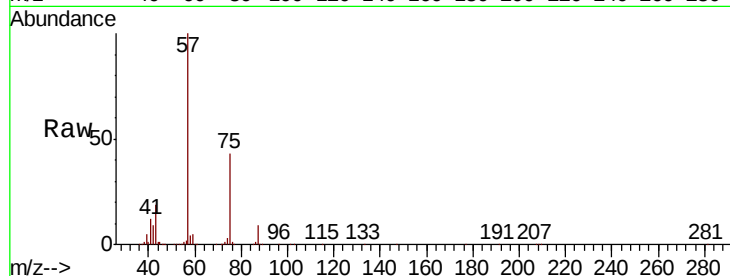




#59
2-Hexanone
Concen: 20.775 ug/l
RT: 9.52 min Scan# 1384
Delta R.T. 0.05 min
Lab File: VX016202.D
Acq: 14 May 2020 00:54

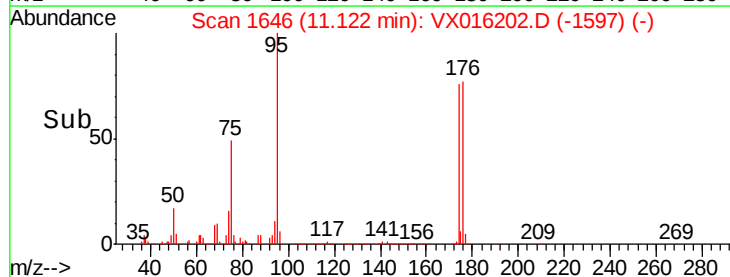
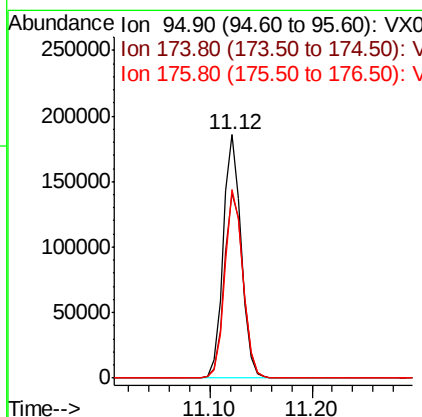
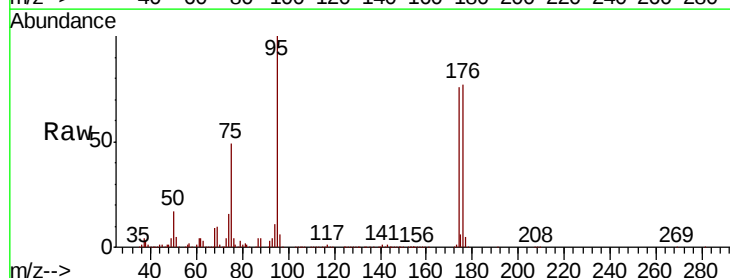
Instrument :
MSVOA_X
ClientSampleId :
PB128838ZHE#03

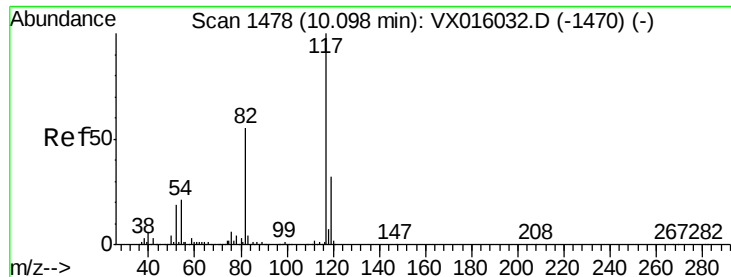
Tot Ion: 43 Resp: 84810
Ion Ratio Lower Upper
43 100
58 20.7 28.6 85.9#



#62
4-Bromofluorobenzene
Concen: 52.380 ug/l
RT: 11.12 min Scan# 1646
Delta R.T. -0.00 min
Lab File: VX016202.D
Acq: 14 May 2020 00:54

Tgt Ion: 95 Resp: 226949
Ion Ratio Lower Upper
95 100
174 79.1 0.0 159.4
176 77.7 0.0 157.6

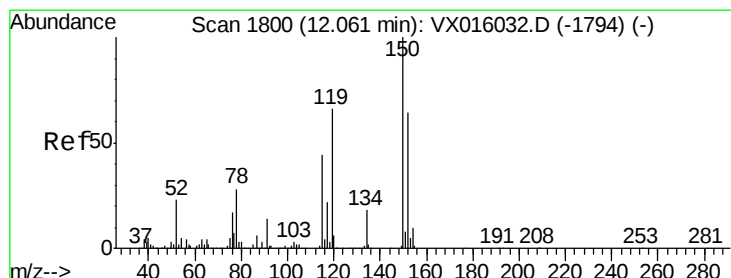
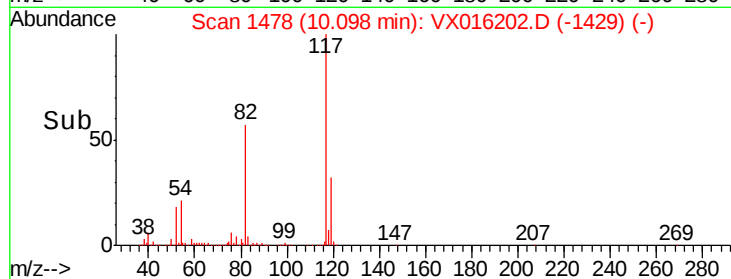
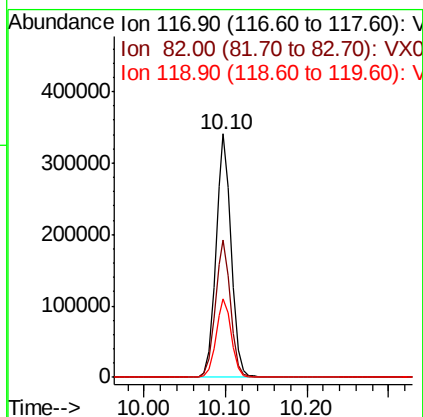
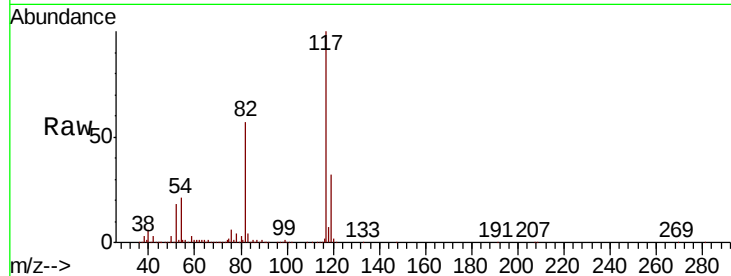




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 10.10 min Scan# 1478
Delta R.T. -0.00 min
Lab File: VX016202.D
Acq: 14 May 2020 00:54

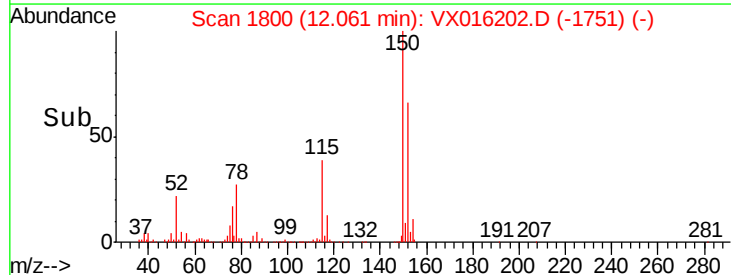
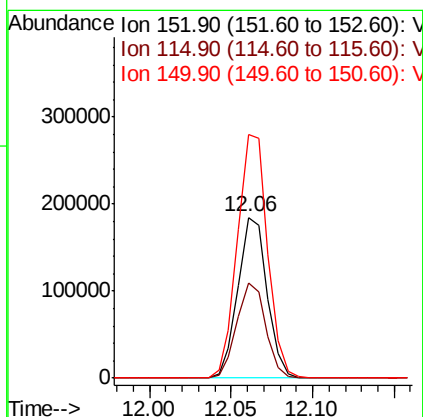
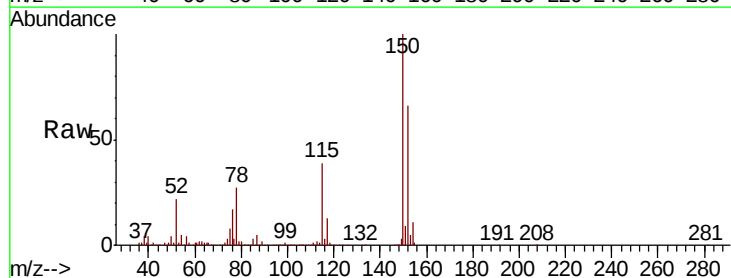
Instrument :
MSVOA_X
ClientSampleId :
PB128838ZHE#03

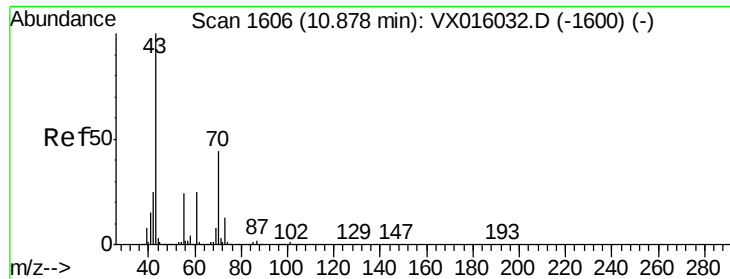
Tot Ion:117 Resp: 449381
Ion Ratio Lower Upper
117 100
82 56.6 44.4 66.6
119 32.2 25.5 38.3



#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 12.06 min Scan# 1800
Delta R.T. -0.00 min
Lab File: VX016202.D
Acq: 14 May 2020 00:54

Tgt Ion:152 Resp: 230679
Ion Ratio Lower Upper
152 100
115 59.0 41.3 124.1
150 156.3 0.0 352.2





#74

N-amvl acetate

Concen: 0.610 ug/l

RT: 10.81 min Scan# 1595

Delta R.T. -0.07 min

Lab File: VX016202.D

Acq: 14 May 2020 00:54

Instrument :

MSVOA_X

ClientSampleId :

PB128838ZHE#03

Tot Ion: 43 Resp: 4771

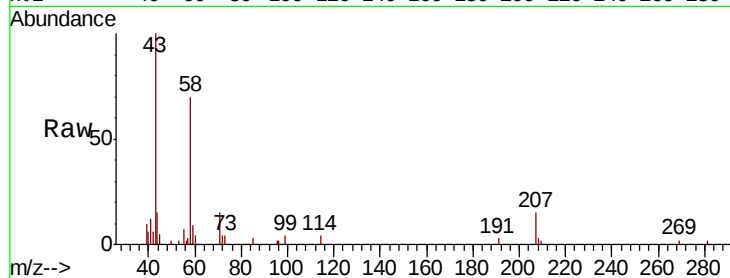
Ion Ratio Lower Upper

43 100

70 0.0 36.5 54.7#

55 9.0 19.7 29.5#

61 0.0 20.9 31.3#

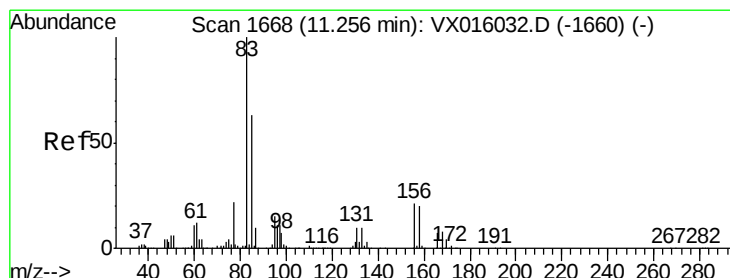
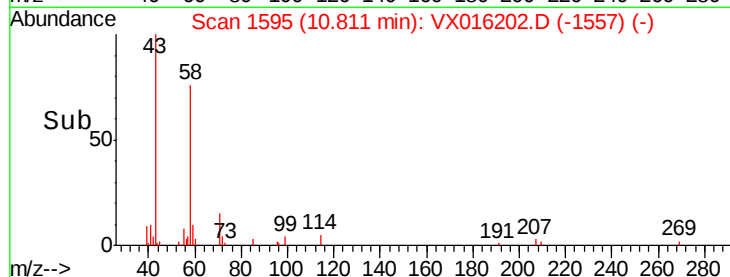
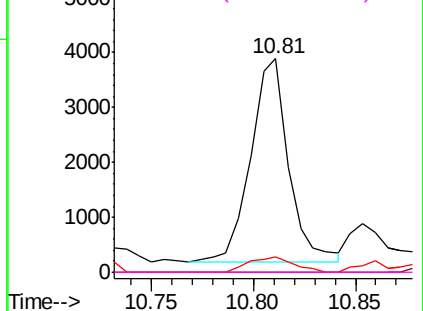


Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 70.00 (69.70 to 70.70): VX0

Ion 55.00 (54.70 to 55.70): VX0

Ion 61.00 (60.70 to 61.70): VX0



#75

1,1,2,2-Tetrachloroethane

Concen: 2.066 ug/l

RT: 11.32 min Scan# 1678

Delta R.T. 0.06 min

Lab File: VX016202.D

Acq: 14 May 2020 00:54

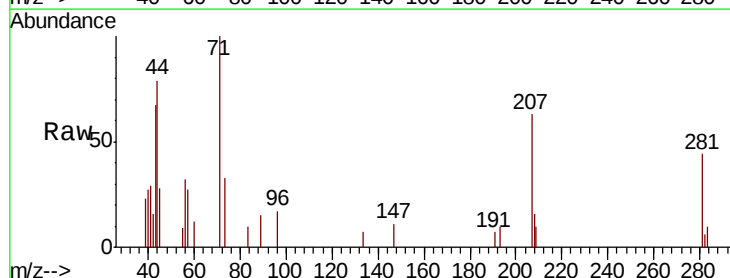
Tgt Ion: 83 Resp: 53

Ion Ratio Lower Upper

83 100

131 0.0 5.1 15.4#

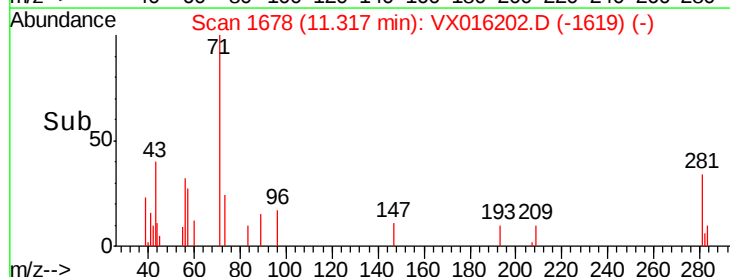
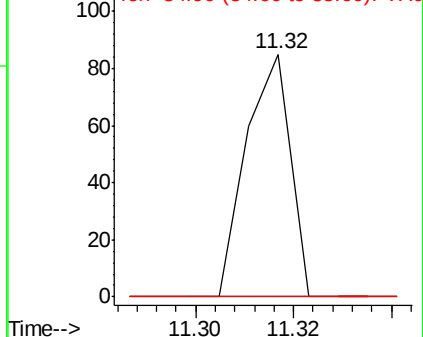
85 0.0 32.0 96.0#

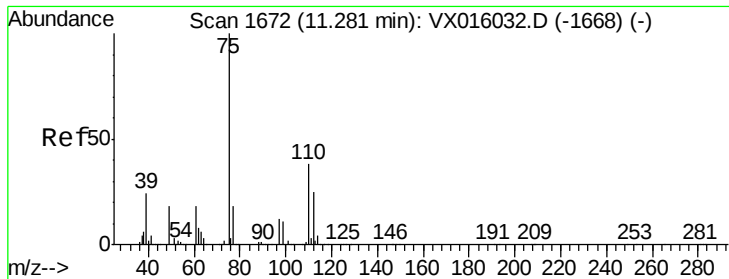


Abundance Ion 82.90 (82.60 to 83.60): VX0

Ion 130.80 (130.50 to 131.50): V

Ion 84.90 (84.60 to 85.60): VX0





#76

1,2,3-Trichloropropane

Concen: 21.370 ug/l

RT: 11.12 min Scan# 1646

Delta R.T. -0.16 min

Lab File: VX016202.D

Acq: 14 May 2020 00:54

Instrument :

MSVOA_X

ClientSampleId :

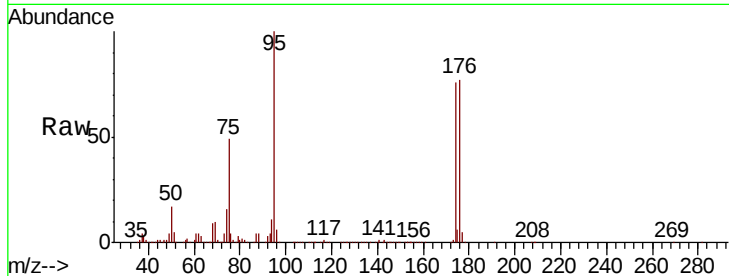
PB128838ZHE#03

Tot Ion: 75 Resp: 111862

Ion Ratio Lower Upper

75 100

77 1.5 21.2 63.6#



Abundance Ion 74.90 (74.60 to 75.60): VX0

Ion 77.00 (76.70 to 77.70): VX0

11.12

100000

80000

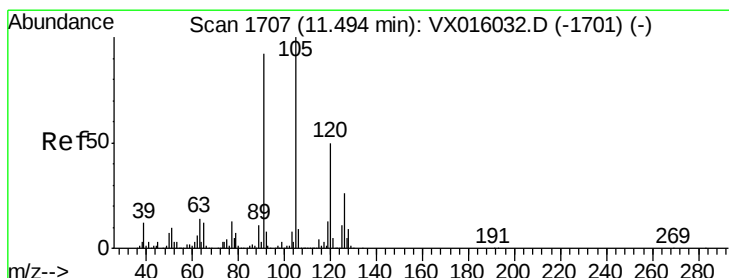
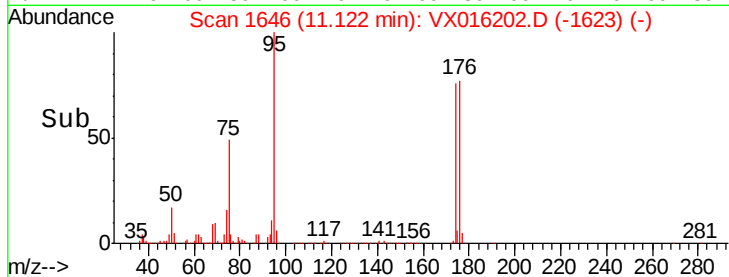
60000

40000

20000

0

Time-->



#80

1,3,5-Trimethylbenzene

Concen: 0.244 ug/l

RT: 11.49 min Scan# 1707

Delta R.T. -0.00 min

Lab File: VX016202.D

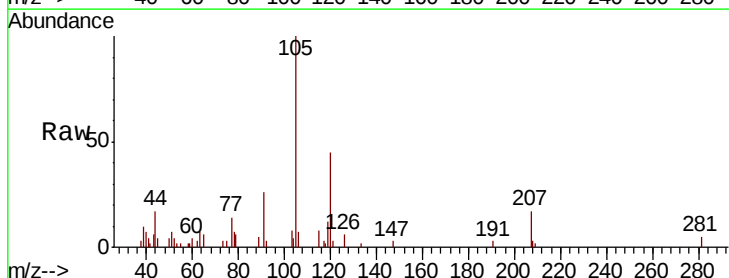
Acq: 14 May 2020 00:54

Tgt Ion:105 Resp: 3455

Ion Ratio Lower Upper

105 100

120 47.6 24.6 74.0



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 120.00 (119.70 to 120.70): V

11.49

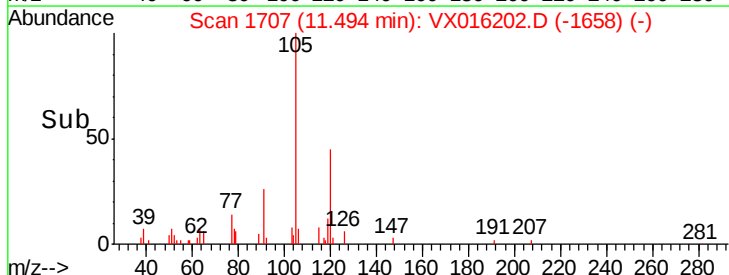
3000

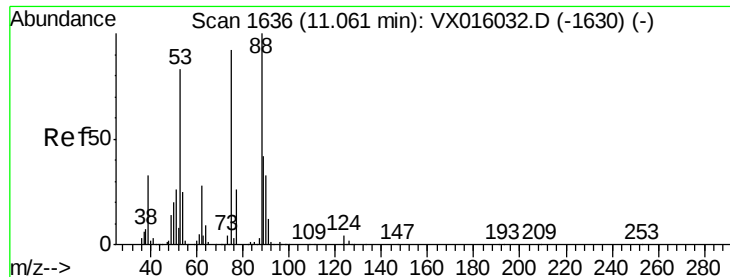
2000

1000

0

Time-->

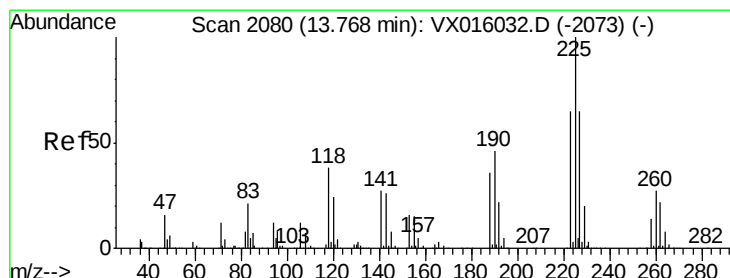
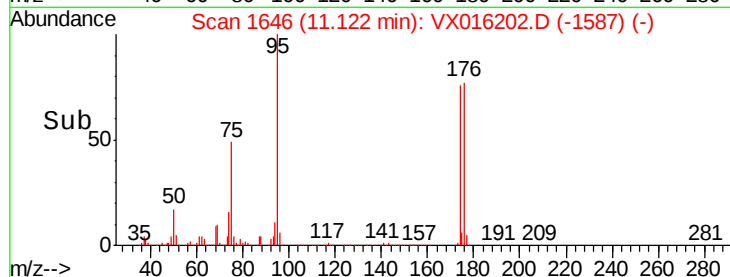
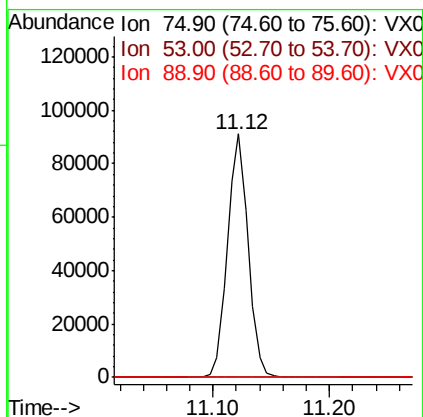
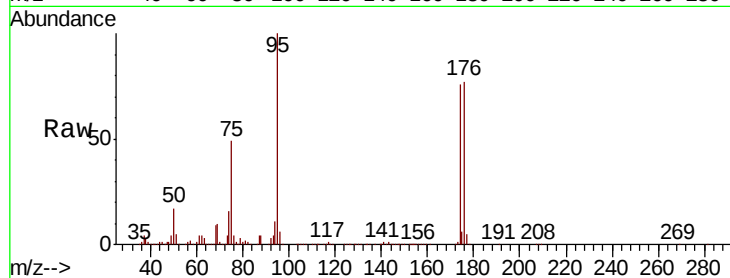




#81
trans-1,4-Dichloro-2-butene
Concen: 50.925 ug/l
RT: 11.12 min Scan# 1646
Delta R.T. 0.06 min
Lab File: VX016202.D
Acq: 14 May 2020 00:54

Instrument :
MSVOA_X
ClientSampleId :
PB128838ZHE#03

Tot Ion: 75 Resp: 111862
Ion Ratio Lower Upper
75 100
53 0.0 73.1 109.7#
89 0.0 36.7 55.1#



#94
Hexachlorobutadiene
Concen: 0.609 ug/l
RT: 13.77 min Scan# 2080
Delta R.T. 0.00 min
Lab File: VX016202.D
Acq: 14 May 2020 00:54

Tgt Ion: 225 Resp: 207
Ion Ratio Lower Upper
225 100
223 69.1 32.3 96.9
227 52.7 31.8 95.4

